Ritesh Agarwal

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SUMMARY

A highly motivated and results-oriented software engineer with 15+ years of experience in C and distributed systems, leveraging expertise in building scalable and reliable software solutions.

EXPERIENCE

Lead Software Development Engineer   Apr 2024 - Present
Zscaler   Pune, MH, India

- Collaborated with cross-functional teams to define project requirements and deliver multiple high-quality/impact customer-focused features, resulting in a measureable increase of Net Annual Recurring Revenue(NARR).
- Expedited resolution of critical blocker issues across development, release and production (mainline) branches, maintaining continous delivery pipelines and ensuring production stability.
- Enhanced team productivity and code quality by triaging bugs for efficient resolution, conducting thorough code reviews, and mentoring team members to accelerate their contributions.
- Streamlined weekly reporting processes by gathering and summarizing team status, enhancing visibility into project health for senior management and cross-functional partners.
- Acted as the on-call development engineer for the India Time Zone (IST), providing frontline support for production systems and resolving critical alerts and incidents on a rotational basis.
- Made use of structured interviewing techniques to ensure standardized, fair, and effective candidate evaluation, enhancing both candidate experience and organizational brand value.

SKILLS

- C, PostgreSQL, Redis, FreeBSD, RAFT, Perl, Shell Scripting, Python, Gdb, Data Strucutres, Algorithms, Gemini/ChatGPT GenAI, iocage, cmocka, PagerDuty, Jenkins, Vmware ESXi, Vmware vCenter

Lead Software Development Engineer   2019 - Apr 2024
Pubmatic   Pune, MH, India

- Developed and led multiple customer-targeted and strategic project and ensured that features were delivered with no open static code analyser warnings, 70-80% Cmocka Dev Unit Test coverage with Address Sanitizer checks, 80-90% QA Automation Coverage and small-scale A/B and Sanity production testing including backward-compatibility and end-to-end tests leading to multiple successful feature deliveries with high quality ensuring timely and smooth releases.
- Oversaw multi-geo week-long phased releases (20%, 50%, 100%) by analyzing KPIs between new and mainline code, providing timely and reliable go/no-go decisions at each stage to ensure production stability and enable successful and timely rollouts or necessary investigations/rollbacks.
- Enhanced project visibility for senior management and cross-functional partners by streamlining weekly reporting, providing concise summaries of team status and key insights.
- Reduced surprise issues and design gaps by promoting truth table-based requirement discussions, ensuring comprehensive scenario analysis and early issue detection when costs are lowest.
- Guided an 8-member cross-functional Agile team (Development and QA) as Scrum Master and Team Lead, significantly enhancing Agile maturity from foundational Level 0 to advanced Level 4 through consistent encouragement and implementation of best practices.
- As Scrum Master for a distributed team (US/India), facilitated Agile ceremonies to align on acceptance criteria and dependencies, and drove a continuous improvement culture through post-sprint feedback, resulting in fewer re-opened stories, greater sprint comittment accuracy, and a tangible reduction in team impediments.
- Developed and deployed a suite of engineering tools for static code analysis, memory error detection (Address Sanitizer), and a containerized (Docker) development environment, leading to a significant improvement in code quality and developer efficiency.

SKILLS

- C, PostgreSQL, Redis, FreeBSD, RAFT, Perl, Shell Scripting, Python, Gdb, Data Strucutres, Algorithms, Gemini/ChatGPT GenAI, iocage, cmocka, PagerDuty, Jenkins, Vmware ESXi, Vmware vCenter, emacs, cscope, opengrok

Software Engineer   Jun 2020 - Oct 2022
Microsoft   Redmond, WA

- Developed and maintained software for [Product/Team].
- Contributed to the design and implementation of new features.
- Fixed bugs and improved the performance of existing code.

Education

Stanford University   Sept 2016 - Jun 2020

Master of Science in Computer Science   Stanford, CA

- GPA: 3.8/4.0
- Relevant Coursework: Algorithms, Data Structures, Artificial Intelligence, Machine Learning

Projects

Personal Website | HTML, CSS, JavaScript, React   Oct 2023 - Present

- Developed a personal website to showcase my portfolio and skills.
- Implemented a responsive design to ensure optimal viewing on all devices.

Skills

Languages: Python, Java, C++, JavaScript

Frameworks: React, Node.js, Django, Flask

Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, Docker, Kubernetes, Jenkins